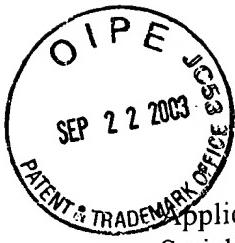


2175#10



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Chris Halim                          Art Unit : 2175  
 Serial No. : 09/977,780                          Examiner : C. Rones  
 Filed : October 15, 2001  
 Title : REMOTE DATA ACCESS AND SYNCHRONIZATION

Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

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Technology Center 2100

INFORMATION DISCLOSURE STATEMENT

Copies of the references listed on the attached form PTO-1449 are enclosed. Applicants do not concede that the listed references are prior art. The enclosed references have come to applicant's attention in connection with litigations involving other patents owned by the assignee, Pumatech, Inc.

The full text of each of references AOOOOOO, ANNNNNNN, and APPPPPPP can be found in the files of copending applications: U.S. Serial No. 10/339,007; U.S. Serial No. 10/122,704; U.S. Serial No. 09/776,452; U.S. Serial No. 09/205,020; U.S. Serial No. 90/006,569; and U.S. Serial No. 90/006,583. The sheer volume of these references is so great that it was believed reasonable to supply only the table of contents herewith. Alternatively, the examiner may contact the undersigned for a full copy.

This statement is being filed within three months of the filing date of an RCE.

## CERTIFICATE OF MAILING BY FIRST CLASS MAIL

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Applicant : Chris Halim  
Serial No. : 09/977,780  
Filed : October 15, 2001  
Page : 2 of 2

Attorney's Docket No.: 05110-014002

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 9/18/03

G. Roger Lee  
Reg. No. 28,963

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225 Franklin Street  
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Sheet 1 of 9

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|--|--|---|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)   |  | Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>05110-014002 | Application No.<br>09/977,780 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br>Chris Halim                              |                                       |                               |
|  |  | Filing Date<br>October 15, 2001                       | Group Art Unit<br>2175                |                               |

| U.S. Patent Documents |           |                 |                  |                    |       |          |                            |
|-----------------------|-----------|-----------------|------------------|--------------------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee           | Class | Subclass | Filing Date If Appropriate |
|                       | AA        | 6,330,568       | 12/11/01         | Boothby et al.     |       |          |                            |
|                       | AB        | 6,272,074       | 08/07/01         | Winner             |       |          |                            |
|                       | AC        | 6,125,369       | 09/26/00         | Wu et al.          |       |          |                            |
|                       | AD        | 6,098,078       | 01/08/00         | Gehani et al.      |       |          |                            |
|                       | AE        | 6,081,806       | 06/27/00         | Chang et al.       |       |          | SEP 24 2003                |
|                       | AF        | 5,999,947       | 12/07/99         | Zollinger et al.   |       |          | Technology Center 2100     |
|                       | AG        | 5,995,980       | 11/30/99         | Olson et al.       |       |          |                            |
|                       | AH        | 5,974,238       | 10/26/99         | Chase, Jr.         |       |          |                            |
|                       | AI        | 5,966,714       | 10/12/99         | Huang et al.       |       |          |                            |
|                       | AJ        | 5,956,508       | 09/21/99         | Johnson et al.     |       |          |                            |
|                       | AK        | 5,926,816       | 07/20/99         | Bauer et al.       |       |          |                            |
|                       | AL        | 5,924,094       | 07/13/99         | Sutter             |       |          |                            |
|                       | AM        | 5,892,909       | 04/06/99         | Grasso et al.      |       |          |                            |
|                       | AN        | 5,897,640       | 04/27/99         | Veghte et al.      |       |          |                            |
|                       | AO        | 5,884,325       | 03/16/99         | Bauer et al.       |       |          |                            |
|                       | AP        | 5,877,760       | 03/02/99         | Onda et al.        |       |          |                            |
|                       | AQ        | 5,878,415       | 03/02/99         | Olds               |       |          |                            |
|                       | AR        | 5,875,242       | 02/23/99         | Glaser et al.      |       |          |                            |
|                       | AS        | 5,870,759       | 02/09/99         | Bauer et al.       |       |          |                            |
|                       | AT        | 5,857,201       | 01/05/99         | Wright, Jr. et al. |       |          |                            |
|                       | AU        | 5,845,293       | 12/01/1998       | Veghte et al.      |       |          |                            |
|                       | AV        | 5,838,923       | 11/17/98         | Lee et al.         |       |          |                            |
|                       | AW        | 5,832,489       | 11/03/98         | Kucala             |       |          |                            |
|                       | AX        | 5,819,274       | 10/06/98         | Jackson Jr.        |       |          |                            |
|                       | AY        | 5,819,272       | 10/06/98         | Benson             |       |          |                            |
|                       | AZ        | 5,813,013       | 09/22/98         | Shakib et al.      |       |          |                            |
|                       | AAA       | 5,813,009       | 09/22/98         | Johnson et al.     |       |          |                            |

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| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |



Sheet 2 of 9

|  |  |  |                                       |                               |
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| Substitute Form PTO-1449<br>(Modified)   |  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>05110-014002 | Application No.<br>09/977,780 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) |  | Applicant<br>Chris Halim                                   |                                       |                               |
|  |  | Filing Date<br>October 15, 2001                            | Group Art Unit<br>2175                |                               |

| <b>U.S. Patent Documents</b> |           |                 |                  |                 |       |          |                            |
|------------------------------|-----------|-----------------|------------------|-----------------|-------|----------|----------------------------|
| Examiner Initial             | Desig. ID | Document Number | Publication Date | Patentee        | Class | Subclass | Filing Date If Appropriate |
|                              | ABB       | 5,809,494       | 09/15/98         | Nguyen          |       |          |                            |
|                              | ACC       | 5,790,789       | 08/04/98         | Suarez          |       |          |                            |
|                              | ADD       | 5,781,908       | 07/14/98         | Williams et al. |       |          |                            |
|                              | AEE       | 5,778,388       | 07/07/98         | Kawamura et al. |       |          |                            |
|                              | AFF       | 5,758,083       | 05/26/98         | Singh et al.    |       |          | SEP 24 2003                |
|                              | AGG       | 5,738,337       | 05/26/98         | Hammond         |       |          | Technology Center 2100     |
|                              | AHH       | 5,737,539       | 04/07/98         | Edelson et al.  |       |          |                            |
|                              | AII       | 5,708,812       | 01/13/98         | Van Dyke et al. |       |          |                            |
|                              | AJJ       | 5,706,509       | 01/06/98         | Man Hak Tso     |       |          |                            |
|                              | AKK       | 5,704,029       | 12/30/97         | Wright Jr.      |       |          |                            |
|                              | ALL       | 5,689,706       | 11/18/97         | Rao et al.      |       |          |                            |
|                              | AMM       | 5,682,524       | 10/28/97         | Freund et al.   |       |          |                            |
|                              | ANN       | 5,671,407       | 09/23/97         | Demers et al.   |       |          |                            |
|                              | AOO       | 5,659,741       | 08/19/97         | Eberhardt       |       |          |                            |
|                              | APP       | 5,649,182       | 07/15/97         | Reitz           |       |          |                            |
|                              | AQQ       | 5,623,540       | 04/22/97         | Morrison et al. |       |          |                            |
|                              | ARR       | 5,619,689       | 04/08/97         | Kelly           |       |          |                            |
|                              | ASS       | 5,615,109       | 03/25/97         | Eder            |       |          |                            |
|                              | ATT       | 5,615,364       | 03/25/97         | Marks           |       |          |                            |
|                              | AUU       | 5,613,113       | 03/18/97         | Goldring        |       |          |                            |
|                              | AVV       | 5,608,865       | 03/04/97         | Midgely et al.  |       |          |                            |
|                              | AWW       | 5,583,793       | 12/10/96         | Gray et al.     |       |          |                            |
|                              | AXX       | 5,581,754       | 12/03/96         | Terry et al.    |       |          |                            |
|                              | AYY       | 5,581,753       | 12/03/96         | Terry et al.    |       |          |                            |
|                              | AZZ       | 5,568,402       | 10/22/96         | Gray et al.     |       |          |                            |
|                              | AAAA      | 5,560,005       | 09/24/96         | Hoover et al.   |       |          |                            |
|                              | ABBB      | 5,557,518       | 09/17/96         | Rosen           |       |          |                            |

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| Examiner Signature   | Date Considered |
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Sheet 3 of 9

|  |  |  |                        |                                       |                               |
|--|--|--|------------------------|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)   |  | U.S. Department of Commerce<br>Patent and Trademark Office |                        | Attorney's Docket No.<br>05110-014002 | Application No.<br>09/977,780 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br>Chris Halim                                   |                        |                                       |                               |
|  |  | Filing Date<br>October 15, 2001                            | Group Art Unit<br>2175 |                                       |                               |

| <b>U.S. Patent Documents</b> |           |                 |                  |                       |       |          |                            |
|------------------------------|-----------|-----------------|------------------|-----------------------|-------|----------|----------------------------|
| Examiner Initial             | Desig. ID | Document Number | Publication Date | Patentee              | Class | Subclass | Filing Date If Appropriate |
|                              | ACCC      | 5,530,939       | 06/25/96         | Mansfield, Jr. et al. |       |          |                            |
|                              | ADDD      | 5,530,853       | 06/25/96         | Schell et al.         |       |          |                            |
|                              | AEEE      | 5,519,606       | 05/21/96         | Fried-Nielsen et al.  |       |          |                            |
|                              | AFFF      | 5,511,188       | 04/23/96         | Pascucci et al.       |       |          |                            |
|                              | AGGG      | 5,475,833       | 12/12/95         | Dauerer et al.        |       |          | SEP 24 2003                |
|                              | AHHH      | 5,463,735       | 10/31/95         | Pascucci et al.       |       |          | Technology Center 2100     |
|                              | AIII      | 5,455,945       | 10/03/95         | VanderDrift           |       |          |                            |
|                              | AJJJ      | 5,444,851       | 08/22/95         | Woest                 |       |          |                            |
|                              | AKKK      | 5,434,994       | 07/18/95         | Shaheen et al.        |       |          |                            |
|                              | ALLL      | 5,421,012       | 05/30/95         | Khoyi et al.          |       |          |                            |
|                              | AMMM      | 5,412,801       | 05/02/95         | De Remer et al.       |       |          |                            |
|                              | ANNN      | 5,396,612       | 03/07/95         | Huh et al.            |       |          |                            |
|                              | AOOO      | 5,375,234       | 12/20/94         | Davidson et al.       |       |          |                            |
|                              | APPP      | 5,355,476       | 10/11/94         | Fukumura              |       |          |                            |
|                              | AQQQ      | 5,339,434       | 08/16/94         | Rusis                 |       |          |                            |
|                              | ARRR      | 5,339,392       | 08/16/94         | Risberg et al.        |       |          |                            |
|                              | ASSS      | 5,333,316       | 07/26/94         | Champagne et al.      |       |          |                            |
|                              | ATTT      | 5,333,265       | 07/26/94         | Orimo et al.          |       |          |                            |
|                              | AUUU      | 5,327,555       | 07/05/94         | Andersen              |       |          |                            |
|                              | AVVV      | 5,323,314       | 06/21/94         | Baber et al.          |       |          |                            |
|                              | AWWW      | 5,301,313       | 04/05/94         | Terada et al.         |       |          |                            |
|                              | AXXX      | 5,293,627       | 03/08/94         | Kato et al.           |       |          |                            |
|                              | AYYY      | 5,283,887       | 02/01/94         | Zachery               |       |          |                            |
|                              | AZZZ      | 5,278,982       | 01/11/94         | Daniels et al.        |       |          |                            |
|                              | AAAAA     | 5,276,876       | 01/04/94         | Coleman et al.        |       |          |                            |
|                              | ABBBB     | 5,272,628       | 12/21/93         | Koss                  |       |          |                            |
|                              | ACCCC     | 5,261,045       | 11/09/93         | Scully et al.         |       |          |                            |

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| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |

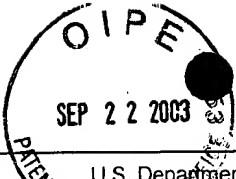
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SEP 22 2003Sheet 4 of 9

|  |  |  |                                       |                               |
|--|--|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)   |  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>05110-014002 | Application No.<br>09/977,780 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br>Chris Halim                                   |                                       |                               |
|  |  | Filing Date<br>October 15, 2001                            | Group Art Unit<br>2175                |                               |

| <b>U.S. Patent Documents</b> |           |                 |                  |                   |       |          |                            |
|------------------------------|-----------|-----------------|------------------|-------------------|-------|----------|----------------------------|
| Examiner Initial             | Desig. ID | Document Number | Publication Date | Patentee          | Class | Subclass | Filing Date If Appropriate |
|                              | ADDDD     | 5,251,291       | 10/05/93         | Malcolm           |       |          |                            |
|                              | AEEEE     | 5,251,151       | 10/05/93         | Demjanenko et al. |       |          |                            |
|                              | AFFFF     | 5,237,678       | 08/17/93         | Kuechler et al.   |       |          |                            |
|                              | AGGGG     | 5,228,116       | 07/13/93         | Harris et al.     |       |          |                            |
|                              | AHHHH     | 5,220,540       | 06/15/93         | Nishida et al.    |       |          | RECEIVED SEP 24 2003       |
|                              | AIIII     | 5,210,868       | 05/11/93         | Shimada et al.    |       |          |                            |
|                              | AJJJJ     | 5,201,010       | 04/06/93         | Deaton et al.     |       |          | Technology Center 2100     |
|                              | AKKKK     | 5,197,000       | 03/23/93         | Vincent           |       |          |                            |
|                              | ALLLL     | 5,187,787       | 02/16/93         | Skeen et al.      |       |          |                            |
|                              | AMMMM     | 5,155,850       | 10/13/92         | Janis et al.      |       |          |                            |
|                              | ANNNN     | 5,142,619       | 08/25/92         | Webster III       |       |          |                            |
|                              | AOOOO     | 5,136,707       | 08/04/92         | Block et al.      |       |          |                            |
|                              | APPPP     | 5,134,564       | 07/28/92         | Dunn et al.       |       |          |                            |
|                              | AQQQQ     | 5,124,912       | 06/23/92         | Hotaling et al.   |       |          |                            |
|                              | ARRRR     | 4,980,844       | 12/25/90         | Demjanenko et al. |       |          |                            |
|                              | ASSSS     | 4,956,809       | 09/11/90         | George et al.     |       |          |                            |
|                              | ATTTT     | 4,939,689       | 07/03/90         | Davis et al.      |       |          |                            |
|                              | AUUUU     | 4,875,159       | 10/17/89         | Cary et al.       |       |          |                            |
|                              | AVVVV     | 4,866,611       | 09/12/89         | Cree et al.       |       |          |                            |
|                              | AWWWW     | 4,831,552       | 05/16/89         | Scully et al.     |       |          |                            |
|                              | AXXXX     | 4,827,423       | 05/02/89         | Beasley et al.    |       |          |                            |
|                              | AYYYY     | 4,819,191       | 04/04/89         | Scully et al.     |       |          |                            |
|                              | AZZZZ     | 4,819,156       | 04/04/89         | DeLorme et al.    |       |          |                            |
|                              | AAAAAA    | 4,817,018       | 03/28/89         | Cree et al.       |       |          |                            |
|                              | BBBBBB    | 4,807,182       | 02/21/89         | Queen             |       |          |                            |
|                              | CCCCC     | 4,807,155       | 02/21/89         | Cree et al.       |       |          |                            |
|                              | ADDDD     | 4,807,154       | 02/21/89         | Scully et al.     |       |          |                            |

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Sheet 5 of 9

|   |  |  |  |                                      |
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| Substitute Form PTO-1449<br>(Modified)  |  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br><b>05110-014002</b> | Application No.<br><b>09/977,780</b> |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary) |  | Applicant<br><b>Chris Halim</b>                            | Filing Date<br><b>October 15, 2001</b>       | Group Art Unit<br><b>2175</b>        |

## **U.S. Patent Documents**

| SEARCHED DOCUMENTS |           |                 |                  |                |       |          |
|--------------------|-----------|-----------------|------------------|----------------|-------|----------|
| Examiner Initial   | Desig. ID | Document Number | Publication Date | Patentee       | Class | Subclass |
|                    | AEEEEEE   | 4,432,057       | 02/14/84         | Daniell et al. |       |          |
|                    | AFFFFF    | 4,162,610       | 07/31/79         | Levine         |       |          |

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Other Documents (Include Author, Title, Date, etc.) |           | Document  |
|---|-----------|---|
| Examiner Initial                                    | Desig. ID |   |
|   | AGGGGG    | Adly, "HARP: A Hierarchical Asynchronous Replication Protocol for Massively Replicated Systems," Computer Laboratory, Cambridge University, United Kingdom (undated)  |
|   | AHHHHH    | Adly et al., "A Hierarchical Asynchronous Replication Protocol for Large Scale Systems," Computer Laboratory, Cambridge University, United Kingdom, Computer Science Department, Alexandria University, Egypt (undated) |
|   | AIIIII    | Alexander, "Designed, sold, delivered, serviced," Computerworld Client/Server Journal, pp. 43 (10/01/95)  |
|   | AJJJJJ    | Alfieri, "The Best of WordPerfect Version 5.0," Hayden Books, pp. 153-165, 429-435 (1988)   |
|   | AKKKKK    | "All I need is a miracle; computer-aided educational packages; Small Wonders," Coastal Associates Publishing L.P. (03/1992)   |
|   | ALLLLL    | Alonso et al., "Database System Issues in Nomadic Computing," Matsushita Information Technology Laboratory, New Jersey (undated)  |
|   | AMMMMM    | "Automatically Synchronized Objects," Research Disclosure #29261, p. 614 (Aug. 1988)  |
|   | ANNNNN    | Badrinath et al., "Impact of Mobility on Distributed Computations," Operating Systems Review (April 1, 1993)  |
|   | AOOOOO    | Barbara et al., "Sleeper and Workaholics: Caching Strategies in Mobile Environments (Extended Version)" (08/29/1994)  |
|   | APPPPP    | Bishop et al., "The Big Picture (Accessing information on remote data management system)", UNIX Review, v. 7, n. 8, p. 38(7), Aug. 1989   |
|   | AQQQQQ    | Bowen, M. et al., "Achieving Throughput and Functionality in a Common Architecture: The Datacycle Experiment, IEEE, pp. 178, 1991.  |
|   | ARRRRR    | Brandel, "New offerings fuel revival of PIM," Computerworld, p. 39 (09/12/94)   |
|   | ASSSSS    | Brodersen, "InfoPad-An Experiment in System Level Design and Integration," (03/01/97)   |
|   | ATTTTT    | Chapura, Inc., 3 Compare, <a href="http://www.chapura.com/3compare.html">http://www.chapura.com/3compare.html</a> (1997), pages 1-2   |
|   | AUUUUU    | Chapura, Inc., PilotMirror Features Page, <a href="http://www.chapura.com/features.html">http://www.chapura.com/features.html</a> (1997), pages 1-4   |
|   | AVVVVV    | Cobb et al., "Paradox 3.5 Handbook 3rd Edition," Bantam, pp. 803-816 (1991)   |
|   | WWWWWW    | Demers et al., "The Bayou Architecture: Support for Data Sharing Among Mobile Users," Computer Science Laboratory, Xerox Palo Alto Research Center, California (undated)  |
|   | AXXXXX    | DeVoe et al., "SOFTWARE: Day-Timer Organizer 2.0 based on formula_1 paper-based", InfoWorld, Vol. 17 (08/21/95)   |

SFP 24 2003

Examiner Signature                      Date Considered                      Technology Center 2100  
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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SEP 22 2003Sheet 6 of 9

|  |  |  |                                       |                               |                        |
|--|--|--|---------------------------------------|-------------------------------|------------------------|
| Substitute Form PTO-1449<br>(Modified)   |  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>05110-014002 | Application No.<br>09/977,780 | RECEIVED               |
| <b>Information Disclosure Statement<br/>by Applicant</b><br><small>(Use several sheets if necessary)</small><br><small>(37 CFR §1.98(b))</small> |  | ATTEN: TRADEMARK   | Applicant<br>Chris Halim              | SEP 24 2003                   |                        |
|  |  |  | Filing Date<br>October 15, 2001       | Group Art Unit<br>2175        | Technology Center 2100 |

| <b>Other Documents (include Author, Title, Date, and Place of Publication)</b> |           |   |
|--|-----------|---|
| Examiner Initial   | Desig. ID | Document  |
|  | YYYYYY    | FRx Extends Reporting Power of Platinum Series: (IBM Desktop Software's Line of Accounting Software)," Doug Dayton, PC Week, v. 8, n. 5, p. 29(2) (Feb. 4, 1991)  |
|  | AZZZZZ    | Froese, "File System Support for Weakly Connected Operation," pp. 229-238 (undated)   |
|  | AAAAAAA   | Greenberg et al., "Real Time Groupware as a Distributed System: Concurrency Control and its Effect on the Interface," Procs. Of the ACM CSCW Conf. On Computer Supported Cooperative Work, Oct. 22-26, North Carolina, ACM Press (01/01/94) |
|  | ABBBBBBB  | Guy, "Ficus: A Very Large Scale Reliable Distributed File System," Technical Report CSD-910018, Computer Science Dept. UCLA (Technical Report) (06/03/91)   |
|  | ACCCCCC   | Guy et al., "Implementation of the Ficus Replicated File System," appeared in Procs. Of the Summer USENIX Conf., Anaheim, CA, pp. 63-71 (06/01/90)  |
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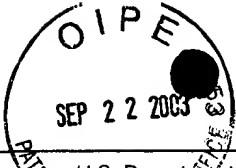
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Sheet 7 of 9

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| Substitute Form PTO-1449<br>(Modified)   |  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>05110-014002 | Application No.<br>09/977,780                     |
| <b>Information Disclosure Statement<br/>by Applicant</b><br><small>(Use several sheets if necessary)</small><br><small>(37 CFR §1.98(b))</small> |  | Applicant<br>Chris Halim                                   | Filing Date<br>October 15, 2001       | Group Art Unit<br>2175                            |
|  |  |  |                                       | RECEIVED<br>SEP 24 2003<br>Technology Center 2100 |

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Sheet 9 of 9

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| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) |  | Applicant<br>Chris Halim              | <b>RECEIVED</b><br>SEP 24 2003                |
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